



United States Patent and Trademark Office



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NOTICE OF ALLOWANCE AND FEE(S) DUE

23416

7590

05/06/2003

CONNOLLY BOVE LODGE & HUTZ, LLP 1220 N MARKET STREET P O BOX 2207 WILMINGTON, DE 19899

 EXAMINER	-
HUTSON, RICHARD G	•

ART UNIT

CLASS-SUBCLASS 435-195000

DATE MAILED: 05/06/2003

APPLICATION NO.	FILING DATE	777.0		
L		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/720,529	12/20/2000	Rebecca E. Cahoon	BB-1118-A	2357

TITLE OF INVENTION: CHROMATIN ASSOCIATED PROTEINS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	D. TE DIE
nonprovisional	NO	\$1300	\$0	\$1300	08/06/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED</u>. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

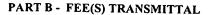
If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- □ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents Alexandria, Virginia 22313-1450

Fax Part 1 (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block I) Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 23416 7590 05/06/2003 CONNOLLY BOVE LODGE & HUTZ, LLP 1220 N MARKET STREET Certificate of Mailing or Transmission P O BOX 2207 I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below. WILMINGTON, DE 19899 (Depositor's name (Signature (Date) APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/720.529 12/20/2000 Rebecca E. Cahoon BB-1118-A 2357 TITLE OF INVENTION: CHROMATIN ASSOCIATED PROTEINS APPLN. TYPE SMALL ENTITY ISSUE FEE PUBLICATION FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1300 \$0 \$1300 08/06/2003 **EXAMINER** ART UNIT **CLASS-SUBCLASS** HUTSON, RICHARD G 1652 435-195000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys $\hfill \square$ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. or agents OR, alternatively, (2) the name of a single firm (having as a member a registered ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name Number is required. is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) Please check the appropriate assignee category or categories (will not be printed on the patent) ☐ individual ☐ corporation or other private group entity ☐ government 4a. The following fee(s) are enclosed: 4b. Payment of Fee(s): ☐ Issue Fee A check in the amount of the fee(s) is enclosed. ☐ Publication Fee ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number _____(enclose an extra copy of this form). ☐ Advance Order - # of Copies Commissioner for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. (Authorized Signature) (Date) NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/720,529	12/20/2000	Rebecca E. Cahoon	BB-1118-A	2357
23416	7590 05/06/2003		EXAMINI	ER
CONNOLLY 1 1220 N MARKI	BOVE LODGE & HUT ET STREET	TZ, LLP	HUTSON, RIC	HARD G
P O BOX 2207	DE 10000		ART UNIT	PAPER NUMBER
WILMINGTON	, DE 19899		1652	
			DATE MAILED: 05/06/2003	

Determination of Patent Term Extension under 35 U.S.C. 154 (b) (application filed after June 7, 1995 but prior to May 29, 2000)

The patent term extension is 0 days. Any patent to issue from the above identified application will include an indication of the 0 day extension on the front page.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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APPLICATION NO.	FILI	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/720,529	12	/20/2000	Rebecca E. Cahoon	BB-1118-A 2357	
23416	7590	05/06/2003		EXAMIN	ER
CONNOLLY 1220 N MARK		DGE & HUTZ, LL	P	HUTSON, RIC	CHARD G
P O BOX 2207				ART UNIT	PAPER NUMBER
WILMINGTON	l, DE 19899			1652	
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Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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<u> </u>	Application No.	Applicant(s)	
	1	CAHOON ET AL.	
	09/720,529	Art Unit	7
Notice of Allowability	Examiner		1
	Richard G Hutson	1652	1
			Iress
The MAILING DATE of this communication app Il claims being allowable, PROSECUTION ON THE MERITS IS erewith (or previously mailed), a Notice of Allowance (PTOL-85 OTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT IS If the Office or upon petition by the applicant. See 37 CFR 1.31	 or other appropriate confi- RIGHTS. This application is and MPEP 1308. 	with the correspondence add in this application. If not inclu munication will be mailed in du s subject to withdrawal from is:	ded e course. THIS sue at the initiative
This communication is responsive to paper filed 2/11/200	<u>03</u> .		
53 - Hawad claim/s) is/are 12-10 driu 22.			
The allowed claim(s) locale are accepted by the Examile. The drawings filed on are accepted by the Examile.	ner.) (f)	
The drawings filed on are accepted by the Example 1 Acknowledgment is made of a claim for foreign priority under the control of t	nder 35 U.S.C. § 119(a)-(d) or (1).	
=/ -	ive been received.		
 Certified copies of the priority documents have Certified copies of the priority documents have 	ave been received in Applic	ation No	
2. ☐ Certified copies of the priority documents had 3. ☐ Copies of the certified copies of the priority	documents have been rece	eived in this national stage app	lication from the
3 Copies of the certified copies of the priority	docamente mass		
International Bureau (PCT Rule 17.2(a))			
* Cortified conies not received:		(to a provisional application).	
* Certified copies not received: 5. Acknowledgment is made of a claim for domestic priorit	y under 35 U.S.C. § 119(e)	(to a providence approved	
5. Acknowledgment is made of a claim for domestic priorities. (a) The translation of the foreign language provision	al application has been rec	eived.	
 (a) ☐ The translation of the foreign language provision Acknowledgment is made of a claim for domestic priorit 	y under 35 U.S.C. §§ 120 a	and/or 121.	
6. Acknowledgment is made of a claim for down		with the	requirements noted
Applicant has THREE MONTHS FROM THE "MAILING DATE below. Failure to timely comply will result in ABANDONMENT	er of this communication to for this application. THIS	file a reply complying with the THREE-MONTH PERIOD IS I	NOT EXTENDABLE
			or NOTICE OF
below. Failure to timely comply will result in AD, to See See See See See See See See See Se	reason(s) why the oath or o	declaration is deficient.	
8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draft	sperson's Patent Drawing I	Review (PTO-948) attached	
(a) Including changes required by an experience of the Paner No.			the Evaminer.
(a)	ving correction filed	, which has been approved by	uic Laminor.
 (b) ☐ including changes required by the proposed draw (c) ☐ including changes required by the attached Exar 	niner's Amendment / Comr	nent or in the Office action of F	aper No
(c) including changes required by the disconnection including changes required by the disconnection of the disconnection including changes required by the disconnection of the d	CFR 1.84(c)) should be writte	en on the drawings in the front (not the back) of
Identifying indicia such as the application number (see 37)	••••••••••••••••••••••••••••••••••••••		
each sheet.			tted. Note the
each sheet. 9. DEPOSIT OF and/or INFORMATION about the attached Examiner's comment regarding REQUIREMENT F	deposit of BIOLOGICAL FOR THE DEPOSIT OF BIO	MATERIAL MUST DE SUDITI DLOGICAL MATERIAL.	
Attachment(s)	٠, ١	Notice of Informal Patent Applic	cation (PTO-152)
Citod (PTO-892)	. — .	nterview Summary (PTO-413)	Paper No
		:mark Amendment/COMIT	ieni
- Carlocuto Statements to 10-1-10/11 Telescope		Examiner's Statement of Reas	ons for Allowance
5⊠ Information Disclosure Statement (7☐ Examiner's Comment Regarding Requirement for Deposition of Biological Material	oosit 6⊠ 0	Other .	

Application/Control Number: 09/720,529

Art Unit: 1652

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Page 2 RHUSPD
5/11/03

DETAILED ACTION

Applicants amendment of the specification and cancellation of claims 1-11, Paper No. 11, 2/11/2003, is acknowledged.

Claims 12-22 are present for examination.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mark Freeman on April 25, 2003.

The application has been amended as follows:

Cancel claims 19-21 without prejudice.

In claim 12 (a) delete "multiple alignment default parameters of GAP PENALTY=10 and GAP LENGTH PENALTY=10, and".

In claim 12 (b) after "complement of the nucleotide sequence", insert "of (a)".

In the specification on page 4, line 34 and at page 16, line 18, change "KTUPLE 1" to "KTUPLE=1".

Application/Control Number: 09/720,529

Art Unit: 1652

The following is an examiner's statement of reasons for allowance: The prior art does not teach or suggest a nucleotide sequence which encodes a polypeptide having histone deacetylase activity wherein the polypeptide has an amino acid sequence of at least 95% sequence identity to SEQ ID NO: 4. Such histone deacetylase encoding nucleic acids may be useful in boosting plant defense mechanisms related to hyperacetylation of histones as discussed in Baldwin et al. (U.S. Patent No. 6,287,843 B1, column 10 through column 12).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard G Hutson whose telephone number is (703) 308-0066. The examiner can normally be reached on 7:30 am to 4:00 pm, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapu Achutamurthy can be reached on (703) 308-3804. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3014 for regular communications and (703) 305-3014 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

Richard Hutson, Ph.D. Primary Patent Examiner Art Unit 1652 May 1, 2003